

What I claim is:

1. In snowboarding equipment that includes a snowboard, two boots, one boot for each of two feet of a snowboarder, and two bindings, each binding designed to secure one boot to the snowboard, a safety device comprising

a binding support platform fashioned to enable fastening of both bindings, the bindings being fastened to the binding support platform rather than to the snowboard, and

a platform retention assembly that is fashioned to be fastened to the snowboard,

the platform retention assembly including a plurality of preloaded compliant members that form interfaces with contours on the binding support platform,

said interfaces preventing the binding support platform from separating from the platform retention assembly except when a force or torque applied to the snowboard exceeds a set threshold, and

the platform retention assembly including a plurality of firm features that contact firm mating features of the binding support platform,

said firm features and firm mating features being arranged such that the locations of contact between them, when projected onto the plane of the snowboard, lie on a single circle.

2. The safety device of claim 1, wherein all of the preloaded compliant members of said platform retention assembly are located in an inner region between the bindings.

3. The safety device of claim 2, wherein each preloaded compliant member provides a force to one or more of said interfaces and all of the forces can be simultaneously adjusted by adjusting the position of one centrally located component.

4. The safety device of claim 1, wherein the binding support platform includes a surface that covers or partially covers the preloaded compliant members of the platform retention assembly.

5. The safety device of claim 1, wherein the preloaded compliant members of said platform retention assembly are located in two peripheral regions, one peripheral region located closer to the leading edge of the snowboard than either of the bindings, and the other peripheral region located closer to the trailing edge of the snowboard than either of the bindings.

6. The safety device of claim 1 wherein said firm features of the platform retention assembly are firm features of one or more plates that are components of the platform retention assembly.

7. The safety device of claim 1 wherein said platform retention assembly includes two distinct underlying plate pieces, each being fastened to the snowboard.

8. The safety device of claim 1 wherein the platform retention assembly includes three or more preloaded compliant members.

9. The safety device of claim 1 wherein said contours include facets that facilitate forcible reattachment of the binding support platform onto the platform retention assembly.

10. In snowboarding equipment that includes a snowboard, two boots, one boot for each of two feet of a snowboarder, and two bindings, each binding designed to secure one boot to the snowboard, a safety device comprising

a binding support platform assembly and,

at least one platform retention plate fashioned to be fastened to the snowboard,

wherein the binding support platform assembly includes

a binding support platform fashioned to enable fastening of both bindings, the bindings being attached to the binding support platform rather than to the snowboard, and

a plurality of preloaded compliant members that form interfaces with contours on the platform retention plate,

said interfaces preventing the binding support platform assembly from separating from the platform retention plate except when a force or torque applied to the snowboard exceeds a set threshold, and

wherein the platform retention plate includes one or more firm features that contact one or more firm mating features of the binding support platform assembly,

said firm features and firm mating features being arranged such that the locations of contact between them, when projected onto the plane of the snowboard, lie on a single circle.

11. The safety device of claim 10, wherein all of the preloaded compliant members of said binding support platform assembly are located in an inner region between the bindings.

10076552-021902

**12.** The safety device of claim **11**, wherein each preloaded compliant member provides a force to one or more of said interfaces and all of the forces can be simultaneously adjusted by adjusting the position of one centrally located component.

**13.** The safety device of claim **10** wherein said contours include facets that facilitate forcible reattachment of the binding support platform assembly onto the platform retention plate.

**14.** The safety device of claim **10**, wherein the preloaded compliant members of said binding support platform assembly are located in two peripheral regions, one peripheral region located closer to the leading edge of the snowboard than either of the bindings, and the other peripheral region located closer to the trailing edge of the snowboard than either of the bindings.

**15.** The safety device of claim **10** wherein said platform retention plate comprises two distinct plate pieces, each being fastened to the snowboard.

**16.** The safety device of claim **15** wherein the two distinct plate pieces are in sliding contact with each other at a joint that permits relative longitudinal motion but constrains relative lateral or vertical motion.

**17.** The safety device of claim **10** having two platform retention plates that are not in contact with each other.

**18.** The safety device of claim **10** wherein the platform retention assembly includes three or more preloaded compliant members.

**19.** The safety device of claim **10**, wherein the binding support platform includes a surface that covers or partially covers the preloaded compliant members of the binding support platform assembly.